STATE OF MISSOURI

DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION



MISSOURI STATE OPERATING PERMIT

In compliance with the Missouri Clean Water Law, (Chapter 644 R.S. Mo. as amended, hereinafter, the Law), and the Federal Water Pollution Control Act (Public Law 92-500, 92^{nd} Congress) as amended,

MO-0135917

Permit No.

Owner: Address:	Emery L. Ferguson 3340 W. Division, Springfield, MO 65802						
Continuing Authority: Address:	Same as Above Same as Above						
Facility Name: Facility Address:	All Metal Recycling Inc. 3340 W. Division, Springfield MO 65802						
Legal Description: Lat/Long:	NW ¹ / ₄ , NW ¹ / ₄ , NW ¹ / ₄ , Sec. 16, T29N, R22W, Greene County +3713298 / -09320455						
Receiving Stream: First Classified Stream and ID: USGS Basin & Sub-watershed No.:	Unnamed Tributary to Wilson Creek (U) Wilson Creek (P) (02375) 303 (d) (11010002-020001)						
is authorized to discharge from the facility das set forth herein:	lescribed herein, in accordance with the effluent limitations and monitoring requirements						
FACILITY DESCRIPTION Outfall #001 – Industrial / Sewerage Works	- SIC #5093 / 4952						
Storm water discharge only.							
Flow is dependent upon precipitation.							
	harges under the Missouri Clean Water Law and the National Pollutant Discharge er regulated areas. This permit may be appealed in accordance with Section 644.051.6 of						
July 8, 2009 Effective Date	Mark N. Templeton, Director Department of Natural Resources						
July 7, 2014 Expiration Date	Cynthia S. Davies, Regional Director, Southwest Regional Office						

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

PAGE NUMBER 2 of 5

PERMIT NUMBER MO-0135917

The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:

OUTFALL NUMBER AND EFFLUENT		FINAL EF	FLUENT LIM	IITATIONS	MONITORIN	G REQUIREMENTS
PARAMETER(S)	UNITS	DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
Outfall #001						
Flow	GPD	*		*	once/quarter**	24 hr. estimate
Chemical Oxygen Demand	mg/L	*		*	once/quarter**	grab
Total Settleable Solids	mL/L/hr	1.0		0.5	once/quarter**	grab
pH – Units	SU	***		***	once/quarter**	grab
Oil & Grease	mg/L	15		10	once/quarter**	grab
Aluminum, Total Recoverable	mg/L	*		*	once/quarter**	grab
Iron, Total Recoverable	mg/L	*		*	once/quarter**	grab
Manganese, Total Recoverable	mg/L	*		*	once/quarter**	grab
Benzene	mg/L	*		*	once/quarter**	grab
Toluene	mg/L	*		*	once/quarter**	grab
Ethylebenzene	mg/L	*		*	once/quarter**	grab
Xylenes, Total	mg/L	*		*	once/quarter**	grab

MONITORING REPORTS SHALL BE SUBMITTED <u>QUARTERLY</u>; THE FIRST REPORT IS DUE <u>October 28, 2009</u>. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.

B. STANDARD CONDITIONS

IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED <u>Parts I & III</u> STANDARD CONDITIONS DATED <u>October 1, 1980 and August 15, 1994</u>, AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

- * Monitoring requirement only.
- ** All samples shall be collected from a discharge resulting from a precipitation event greater than 0.1 inches in magnitude and that occurs at least 72 hours from the previously measurable precipitation event. Sampling shall occur once per quarter in the periods of January through March, April through June, July through September, and October through December, please note that monitoring reports shall be submitted no later than the 28th day of the month following the monitoring period (April 28th, July 28th, October 28th, and January 28th, respectively). If a precipitation event does not occur within the reporting period, report as no discharge. For tracking purposes samples taken anytime in the first quarter (January through March) will be recorded by the department as though they were taken in March, samples taken anytime in the second quarter (April through June) will be recorded by the department as though they were taken in September, and samples taken in the forth quarter (October through December) will be recorded by the department as though they were taken in December.
- *** pH is measured in pH units and is not to be averaged. The pH for all facilities except lagoons is limited to the range of 6.5-9.0 pH units.

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C. SPECIAL CONDITIONS

- 1. This permit may be reopened and modified, or alternatively revoked and reissued, to:
 - (a) Comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a) (2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:
 - (1) contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
 - (2) controls any pollutant not limited in the permit.
 - (b) Incorporate new or modified effluent limitations or other conditions, if the result of a waste load allocation study, toxicity test or other information indicates changes are necessary to assure compliance with Missouri's Water Quality Standards.
 - (c) Incorporate new or modified effluent limitations or other conditions if, as the result of a watershed analysis, a Total Maximum Daily Load (TMDL) limitation is developed for the receiving waters which are currently included in Missouri's list of waters of the state not fully achieving the state's water quality standards, also called the 303(d) list.

The permit as modified or reissued under this paragraph shall also contain any other requirements of the Clean Water Act then applicable.

- 2. All outfalls must be clearly marked in the field.
- 3. Permittee will cease discharge by connection to areawide wastewater treatment system within 90 days of notice of its availability.
- 4. Changes in Discharges of Toxic Substances

The permittee shall notify the Director as soon as it knows or has reason to believe:

- (a) That any activity has occurred or will occur which would result in the discharge of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels:"
 - (1) One hundred micrograms per liter (100 µg/L);
 - (2) Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/L) for 2,5 dinitrophenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
 - (3) Five (5) times the maximum concentration value reported for the pollutant in the permit application;
 - (4) The level established in Part A of the permit by the Director.
- (b) That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant, which was not reported in the permit application.
- 5. Report as no-discharge when a discharge does not occur during the report period.

6. Water Quality Standards

- (a) Discharges to waters of the state shall not cause a violation of water quality standards rule under 10 CSR 20-7.031, including both specific and general criteria.
- (b) General Criteria. The following general water quality criteria shall be applicable to all waters of the state at all times including mixing zones. No water contaminant, by itself or in combination with other substances, shall prevent the waters of the state from meeting the following conditions:
 - (1) Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses;
 - (2) Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses;

C. SPECIAL CONDITIONS (continued)

- (3) Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses;
- (4) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life:
- (5) There shall be no significant human health hazard from incidental contact with the water;
- (6) There shall be no acute toxicity to livestock or wildlife watering;
- (7) Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community;
- (8) Waters shall be free from used tires, car bodies, appliances, demolition debris, used vehicles or equipment and solid waste as defined in Missouri's Solid Waste Law, section 260.200, RSMo, except as the use of such materials is specifically permitted pursuant to section 260.200-260.247.
- 7. The permittee shall develop and implement a Storm Water Pollution Prevention Plan (SWPPP). The SWPPP must be prepared within 30 days and implemented within 90 days of permit issuance. The SWPPP must be kept on-site and should not be sent to DNR unless specifically requested. The permittee shall select, install, use, operate, and maintain the Best Management Practices prescribed in the SWPPP in accordance with the concepts and methods described in the following document:

Storm Water Management For Industrial Activities, Developing Pollution Prevention Plans and Best Management Activities, (Document number EPA 832-R-92-006) published by the United States Environmental Protection Agency (USEPA) in September 1992.

The SWPPP must include the following:

- (a) An assessment of all storm water discharges associated with vehicle maintenance (including vehicle rehabilitation, mechanical repairs, painting, fueling, and lubrication), equipment cleaning, and chemical deicing/anti-icing activities. This must include a list of potential contaminants and an annual estimate of amounts that will be used in the described activities.
- (b) A listing of specific Best Management Practices (BMPs) and a narrative explaining how BMPs will be implemented to control and minimize the amount of potential contaminants that may enter storm water. Minimum BMPs are listed in SPECIAL CONDITIONS #7 below.
- (c) The SWPPP must include a schedule for a bi-monthly site inspection and a brief written report. The inspections must include observation and evaluation of BMP effectiveness, deficiencies, and corrective measures that will be taken. Deficiencies must be corrected within seven days. Inspection reports must be kept on site with the SWPPP. These must be made available to DNR personnel upon request.
- (d) A provision for designating an individual to be responsible for environmental matters.
- (e) A provision for providing training to all personnel involved in material handling and storage, and housekeeping of maintenance and cleaning areas. Proof of training shall be submitted on request of DNR.
- 8. Permittee shall adhere to the following minimum Best Management Practices:
 - (a) Prevent the spillage or loss of fluids, oil, grease, fuel, etc. from vehicle maintenance, equipment cleaning, or warehouse activities and thereby prevent the contamination of storm water from these substances.
 - (b) Provide collection facilities and arrange for proper disposal of waste products including but not limited to petroleum waste products, and solvents.
 - (c) Provide good housekeeping practices on the site to keep trash from entry into waters of the state.
 - (d) Provide sediment and erosion control sufficient to prevent or control sediment loss off of the property. This could include the use of straw bales, silt fences, or sediment basins, if needed, to comply with effluent limits.
- 9. Substances, regulated by federal law under the Resource Conservation and Recovery Act (RCRA) and Comprehensive Environmental Response, Compensation, and Liability Act (CERLA), that are transported, stored, or used for maintenance, cleaning or repair, shall be managed according to RCRA and CERLA.

C. <u>SPECIAL CONDITIONS</u> (continued)

- 10. Containers of paint, paint solvents, automotive fluid and lubricants (oils, antifreeze, brake fluid, ATF) cleaning solvents, insecticides, herbicides, or pesticides shall not be exposed to storm water. For example, containers stored in a building or shed with a sound roof and sidewalls or under a secure waterproof tarp would not be exposed to storm water. Spill prevention, control, and/or management shall be provided sufficient to prevent any spills of these pollutants from entering a water of the state. Any containment system used to implement this requirement shall be constructed of materials compatible with the substances contained and shall also prevent the contamination of groundwater.
- 11. All spills must be cleaned up within 24 hours. This may include the excavation and disposal of contaminated soils. The following spills must be **reported** to the department within 24 hours:
 - (a) Any spill of fluids or chemicals that leaves the property of the facility;
 - (b) Any spill of fluids or chemicals outside of a secondary containment structure and greater than 25 gallons, whether or not it leaves the property.

The department may also require the submittal of a written report detailing measures taken to clean up the spill within 5 days of the spill. Such a report must include the type of material spilled, volume, date of spill, date clean-up completed, clean-up method, and final disposal method. If the spill occurs outside of normal business hours, or if the permit holder cannot reach regional office staff for any reason, the permit holder is instructed to report the spill to the department's 24 hour Environmental Emergency Response hotline at (573) 634-2436. Leaving a message on a department staff member voice-mail does not satisfy this reporting requirement. This requirement is in addition to the Noncompliance Reporting requirement found in Standard Conditions Part I.

- Insecticides, pesticides and herbicides, if used, shall be applied according to manufacturer's directions. Discharges from these
 activities are not authorized.
- 13. Tire storage outdoors shall be limited to less than 500 tires, unless the facility also has a waste tire recycling permit. Storage of 500 or more tires constitutes a waste tire site and requires permits from the Solid Waste Management Program under 10 CSR 80, Waste Tire Rules. A tire that is discarded with the intent of final disposal is a waste tire. Waste tire disposal shall be done according to applicable state or federal regulations.
- 14. Upon dismantling of vehicles and before crushing of vehicles, batteries, fluids, and fuels shall be removed except in sealed units that will remain intact, such as; engines, steering gear units, transmissions and other drive-train component units such as; transfer cases and rear ends that may be stored with the intention of sale as a complete unit.
- 15. If a mechanical unit (engine, transmission, steering gear, transfer case, etc.), or system (brake, cooling, drive train) remains closed, and are to remain intact and there if no likelihood or leakage or spillage, the fluid need not be drained.

Missouri Department of Natural Resources Statement of Basis All Metal Recycling Inc. WWTF NPDES #: MO-MO-0135917 Greene County

A Statement of Basis (Statement) gives pertinent information regarding the applicable regulations and rational for the development of the NPDES Missouri State Operating Permit (operating permit). This Statement includes Wasteload Allocations, Water Quality Based Effluent Limitations, and Reasonable Potential Analysis calculations as well as any other calculations that effect the effluent limitations of this operating permit. This Statement does not pertain to operating permits that include sewage sludge land application plans and variance procedures, and does not include the public comment process for this operating permit.

A Statement is not an enforceable part of an operating permit.

Part I – Facility Information

Facility Type: (IND) Facility SIC Code(s): 4952

Facility Description: Industrial

OUTFALL(S) TABLE:

O C II II EE	-, -			
OUTFALL	DESIGN FLOW (CFS)	TREATMENT LEVEL	EFFLUENT TYPE	DISTANCE TO CLASSIFIED SEGMENT (MI)
001	unknown, dependent upon precipitation	Primary / BMPs*	Industrial Storm water	0.04

^{*} Best Management Practices

Receiving Water Body's Water Quality & Facility Performance History:

Facility did have a general permit but was within 1000 feet of a losing stream

Comments: None. New facility

Part II – Operator Certification Requirements

As per [10 CSR 20-6.010(8) Terms and Conditions of a Permit], permittees shall operate and maintain facilities to comply with the Missouri Clean Water Law and applicable permit conditions and regulations. Operators or supervisors of operations at regulated wastewater treatment facilities shall be certified in accordance with [10 CSR 20-9.020(2)] and any other applicable state law or regulation. As per [10 CSR 20-9.010(2)(A)], requirements for operation by certified personnel shall apply to all wastewater treatment systems, if applicable, as listed below:

Not Applicable \(\subseteq \); This facility is not required to have a certified operator.

Part III – Receiving Stream Information

APPLICABLE DESIGNATIONS OF WATERS OF THE STATE:

As per Missouri's Effluent Regulations [10 CSR 20-7.015], the waters of the state are divided into the below listed
seven (7) categories. Each category list effluent limitations for specific parameters, which are presented in each
outfall's Effluent Limitation Table and further discussed in the Derivation & Discussion of Limits section.

Missouri or Mississippi River [10 CSR 20-7.015(2)]:	
Lake or Reservoir [10 CSR 20-7.015(3)]:	

Losing [10 CSR 20-7.015(4)]:	\boxtimes
Metropolitan No-Discharge [10 CSR 20-7.015(5)]:	
Special Stream [10 CSR 20-7.015(6)]:	
Subsurface Water [10 CSR 20-7.015(7)]:	
All Other Waters [10 CSR 20-7.015(8)]:	П

10 CSR 20-7.031 Missouri Water Quality Standards, the department defines the Clean Water Commission water quality objectives in terms of "water uses to be maintained and the criteria to protect those uses." The receiving stream and/or 1st classified receiving stream's beneficial water uses to be maintained are located in the Receiving Stream Table located below in accordance with [10 CSR 20-7.031(3)].

RECEIVING STREAM(S) TABLE:

WATERBODY NAME	CLASS	WBID	DESIGNATED USES*	8-Digit HUC	EDU**
Unnamed Tributary to Wilson Creek	U		General Criteria, Losing.	11010002	Ozark /
Wilson Creek	P	02375	General Criteria, LWW, AQL,WBC-B	11010002	White

^{* -} Irrigation (IRR), Livestock & Wildlife Watering (LWW), Protection of Warm Water Aquatic Life and Human Health-Fish Consumption (AQL), Cool Water Fishery(CLF), Cold Water Fishery (CDF), Whole Body Contact Recreation (WBC), Secondary Contact Recreation (SCR), Drinking Water Supply (DWS), Industrial (IND).

RECEIVING STREAM(S) LOW-FLOW VALUES TABLE:

RECEIVING STREAM (U, C, P)	L	OW-FLOW VALUES (CF	S)
RECEIVING STREAM (U, C, T)	1Q10	7Q10	30Q10
Unnamed Tributary to Wilson Creek	0	0	0

MIXING CONSIDERATIONS

Mixing Zone: Not Allowed [10 CSR 20-7.031(4)(A)4.B.(I)(a)].

Zone of Initial Dilution: Not Allowed [10 CSR 20-7.031(4)(A)4.B.(I)(b)].

Part IV – Rationale and Derivation of Effluent Limitations & Permit Conditions

ALTERNATIVE EVALUATIONS FOR NEW FACILITIES:

As per [10 CSR 20-7.015(4)(A)], discharges to losing streams shall be permitted only after other alternatives including land application, discharges to a gaining stream and connection to a regional wastewater treatment facility have been evaluated and determined to be unacceptable for environmental and/or economic reasons.

Applicable \boxtimes ;

If applicable, then please explain (this facility discharges to a Losing Stream, as defined by [10 CSR 20-2.010(36)] & [10 CSR 20-7.031(1)(N).

ANTI-BACKSLIDING:

A provision in the Federal Regulations [CWA §303(d)(4); CWA §402(c); 40 CFR Part 122.44(I)] that requires a reissued permit to be as stringent as the previous permit with some exceptions.

New facility.

^{** -} Ecological Drainage Unit

^{*** -} UAA conducted on DATE and approved on DATE or disapproved on DATE.

^{*** -} UAA has not been conducted.

AREA-WIDE WASTE TREATMENT MANAGEMENT & CONTINUING AUTHORITY:

As per [10 CSR 20-6.010(8)(A)10.], when a Continuing Authority under paragraph 10 CSR 20-6.010(3)(B)1. or 2. is expected to be available for connection within the next five (5) years, any operating permit issued to a permittee under this paragraph, located within the service area of the paragraph (3)(B)1. or 2. facility, shall contain the following special condition... This language is contained in Special Condition #3 of this operating permit.

ANTIDEGRADATION:

Policies which ensure protection of water quality for a particular water body where the water quality exceeds levels necessary to protect fish and wildlife propagation and recreation on and in the water. This also includes special protection of waters designated as outstanding natural resource waters. Antidegradation requirements are consistent with 40 CFR 131.12 that outlines methods used to assess activities that may impact the integrity of a water and protect existing uses. This policy may compel the state to maintain a level of water quality above those mandated by criteria.

Not Applicable ⊠; Storm water discharge only.

APPLICABLE PERMIT PARAMETERS:

Effluent parameters for conventional, non-conventional, and toxic pollutants have been obtained from the technology based effluent limits, water quality based limits, and from appropriate sections of the application.

Bio-solids, Sludge, & Sewage Sludge:

Bio-solids are solid materials resulting from wastewater treatment that meet federal and state criteria for beneficial uses (i.e. fertilizer). Sludge is any solid, semi-solid, or liquid waste generated from a municipal, commercial, or industrial wastewater treatment plant, water supply treatment plant, or air pollution control facility or any other such waste having similar characteristics and effect. Sewage sludge is solids, semi-solids, or liquid residue generated during the treatment of domestic sewage in a treatment works; including but not limited to, domestic septage; scum or solids removed in primary, secondary, or advanced wastewater treatment process; and a material derived from sewage sludge. Sewage sludge does not include ash generated during the firing of sewage sludge in a sewage sludge incinerator or grit and screening generated during preliminary treatment of domestic sewage in a treatment works.

Not Applicable 🛛

This condition is not applicable to the permittee for this specific facility.

COMPLIANCE AND ENFORCEMENT:

Action taken by the department to resolve violations of the Missouri Clean Water Law, its implementing regulations, and/or any terms and condition of an operating permit.

Not Applicable \boxtimes ;

The permittee/facility is not under enforcement action and is considered to be in compliance with the Missouri Clean Water Law, its implementing regulations, and/or any terms and condition of an operating permit.

PRETREATMENT PROGRAM:

The reduction of the amount of pollutants, the elimination of pollutants, or the alteration of the nature of pollutant properties in wastewater prior to or in lieu of discharging or otherwise introducing such pollutants into a Publicly Owned Treatment Works [40 CFR Part 403.3(q)].

Not Applicable ⊠;

At this time, the permittee is not required to implement and enforce a Pretreatment Program.

REASONABLE POTENTIAL ANALYSIS (RPA):

Limitations must control all pollutants or pollutant parameters that are or may be discharged at a level which will cause, have reasonable potential to cause, or contribute to an excursion above the Missouri Water Quality Standards.

Not Applicable ⊠;

A RPA was not conducted for this facility.

REMOVAL EFFICIENCY:

Removal efficiency is a method by which the Federal Regulations define Secondary Treatment and Equivalent to Secondary Treatment, which applies to Biochemical Oxygen Demand 5-day (BOD₅) and Total Suspended Solids (TSS) for Publicly Owned Treatment Works (POTWs). Please see the United States Environmental Protection Agency's (EPA) website for interpretation of percent removal requirements for National Pollutant Discharge Elimination System Permit Application Requirements for Publicly Owned Treatment Works and Other Treatment Works Treating Domestic Sewage @ www.epa.gov/fedrgstr/EPA-WATER/1999/August/Day-04/w18866.htm

Not Applicable ⊠;

This wastewater treatment facility is not a POTW. Influent monitoring is not being required to determine percent removal.

SANITARY SEWER OVERFLOWS (SSOS), BYPASSES, INFLOW & INFILTRATION (I&I) – PREVENTION/REDUCTION: Sanitary Sewer Systems (SSSs) are municipal wastewater collection system that convey domestic, commercial, and industrial wastewater, and limited amounts of infiltrated groundwater and storm water (i.e. I&I), to a POTW. SSSs are not designed to collect large amounts of storm water runoff from precipitation events.

Untreated or partially treated discharges from SSSs are commonly referred to as SSOs. SSOs have a variety of causes including blockages, line breaks, sewer defects that allow excess storm water and ground water to overload the system, lapses in sewer system operation and maintenance, inadequate sewer design and construction, power failures, and vandalism. A SSOs is defined as an untreated or partially treated sewage release from a SSS. SSOs can occur at any point in an SSS, during dry weather or wet weather. SSOs include overflows that reach waters of the state. SSOs also include overflows out of manholes and onto city streets, sidewalks, and other terrestrial locations. SSSs can back up into buildings, including private residences. When sewage backups are caused by problems in the publicly-owned portion of an SSS, they are considered SSOs.

Not Applicable ⊠;

This facility is not required to develop or implement a program for maintenance and repair of the collection system; however, it is a violation of Missouri State Environmental Laws and Regulations to allow untreated wastewater to discharge to waters of the state.

SCHEDULE OF COMPLIANCE (SOC):

A schedule of remedial measures included in a permit, including an enforceable sequence of interim requirements (actions, operations, or milestone events) leading to compliance with the Missouri Clean Water Law, its implementing regulations, and/or the terms and conditions of an operating permit.

Not Applicable ⊠;

This permit does not contain a SOC.

STORM WATER POLLUTION PREVENTION PLAN (SWPPP):

In accordance with 40 CFR 122.44(k) *Best Management Practices (BMPs)* to control or abate the discharge of pollutants when: (1) Authorized under section 304(e) of the Clean Water Act (CWA) for the control of toxic pollutants and hazardous substances from ancillary industrial activities: (2) Authorized under section 402(p) of the CWA for the control of storm water discharges; (3) Numeric effluent limitations are infeasible; or (4) the practices

are reasonably necessary to achieve effluent limitations and standards or to carry out the purposes and intent of the CWA.

In accordance with the EPA's *Storm Water Management for Industrial Activities: Developing Pollution Prevention Plans and Best Management Practices* [EPA 832-R-92-006] (Storm Water Management), BMPs are measures or practices used to reduce the amount of pollution entering (regarding this operating permit) waters of the state. BMPs may take the form of a process, activity, or physical structure.

Additionally in accordance with the Storm Water Management, a SWPPP is a series of steps and activities to (1) identify sources of pollution or contamination, and (2) select and carry out actions which prevent or control the pollution of storm water discharges.

Applicable \boxtimes ;

A SWPPP shall be developed and implemented for each site and shall incorporate required practices identified by the department with jurisdiction, incorporate erosion control practices specific to site conditions, and provide for maintenance and adherence to the plan.

WASTELOAD ALLOCATIONS (WLA) FOR LIMITS:

As per [10 CSR 20-2.010(78)], the amount of pollutant each discharger is allowed by the department to release into a given stream after the department has determined to total amount of pollutant that may be discharged into that stream without endangering its water quality.

Not	Apr	olica	ble	X	
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Wasteload allocations were not calculated.

WLA MODELING:

Not Applicable □;

A WLA study was either not submitted or determined not applicable by department staff.

WATER QUALITY STANDARDS:

Per [10 CSR 20-7.031(3)], General Criteria shall be applicable to all waters of the state at all times including mixing zones. Additionally, [40 CFR 122.44(d)(1)] directs the department to establish in each NPDES permit to include conditions to achieve water quality established under Section 303 of the Clean Water Act, including State narrative criteria for water quality.

WHOLE EFFLUENT TOXICITY (WET) TEST:

A WET test is a quantifiable method of determining if a discharge from a facility may be causing toxicity to aquatic life by itself, in combination with or through synergistic responses when mixed with receiving stream water.

Not Applicable \boxtimes ;

At this time, the permittee is not required to conduct WET test for this facility.

303(d) LIST & TOTAL MAXIMUM DAILY LOAD (TMDL):

Section 303(d) of the federal Clean Water Act requires that each state identify waters that are not meeting water quality standards and for which adequate water pollution controls have not been required. Water quality standards protect such beneficial uses of water as whole body contact (such as swimming), maintaining fish and other aquatic life, and providing drinking water for people, livestock and wildlife. The 303(d) list helps state and federal agencies keep track of waters that are impaired but not addressed by normal water pollution control programs.

A TMDL is a calculation of the maximum amount of a given pollutant that a body of water can absorb before its water quality is affected. If a water body is determined to be impaired as listed on the 303(d) list, then a watershed management plan will be developed that shall include the TMDL calculation

Applicable \boxtimes ;

Wilson Creek is listed on the 2004 / 2006 Missouri 303(d) List for unknown toxicity and bacteria.

☐ – This facility is not considered to be a source of the above listed pollutant(s) or considered to contribute to the impairment of Wilson Creek.

Adjusted Design Flow:

10 CSR 20-6.011(1)(B)1. provides for an Adjusted Design Flow when calculating permit fees on human sewage treatment facilities. If the average flow is sixty percent (60%) or less than the system's design flow, the average flow may be substituted for the design flow when calculating the permit fee on human sewage treatment facilities. If the facility's actual average flow is consistently 60% or less than the permitted design flow, the facility may qualify for a reduction in your fee when:

- The facility has a valid permit, or has applied for re-issuance, is in compliance with the terms, conditions and effluent limitations of the permit, and the facility has a good compliance history; and
- Flow is not expected to exceed 60% of design flow for the remaining term of the existing operating permit.

Not Applicable ⊠;

At this time, the permittee has not requested an Adjusted Design Flow modification.

Outfall #001 - Main Facility Outfall

EFFLUENT LIMITATIONS TABLE:

PARAMETER	Unit	BASIS FOR LIMITS	DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	Modified	PREVIOUS PERMIT LIMITATIONS
FLow	GPD	1	*		*	No	N/A
COD	MG/L	8	*		*	No	N/A
TOTAL SETTLEABLE SOLIDS	ML/L/ HR	8	1.0		0.5	No	N/A
PH (S.U.)	SU	3	6.5-9		6.5-9	No	N/A
ALUMINUM TOTAL RECOVERABLE	°C	8	*		*	No	N/A
Iron, Total Recoverable	MG/L	8	*		*	No	N/A
Manganese, Total Recoverable	MG/L	8	*		*	No	N/A
BENZENE	MG/L	8	*		*	No	N/A
TOLUENE	MG/L	8	*		*	No	N/A
ETHYLEBENZENE	MG/L	8	*		*	No	N/A
XYLENES	MG/L	8	*		*	No	N/A
OIL & GREASE	MG/L	1, 8, 3	15		10	No	N/A
FLOW	GPD	1	*		*	No	N/A

COD	MG/L	8	*	*	No	N/A
MONITORING FREQUENCY	Please	see Minim		 g Frequency R Section below		the Derivation

* - Monitoring requirement only

*** - # of colonies/100mL; the Monthly Average for Fecal Coliform is a geometric mean.

**** - Parameter not previously established in previous state operating permit.

N/A – Not applicable

S – Same as previous operating permit

Basis for Limitations Codes:

- 1. State or Federal Regulation/Law
- 2. Water Quality Standard (includes RPA)
- 3. Water Quality Based Effluent Limits
- 4. Lagoon Policy
- 5. Ammonia Policy

- 6. Antidegradation Policy
- 7. Water Quality Model
- 8. Best Professional Judgment
- 9. TMDL or Permit in lieu of TMDL
- 10. WET test Policy
- 11. Dissolved Oxygen Policy

OUTFALL #001 – DERIVATION AND DISCUSSION OF LIMITS:

Chemical Oxygen Demand (COD).

□ Due to the possibility of antifreeze and other chemicals that can cause oxygen depletion, COD monitoring is needed to determine if limits are needed during renewal.

Total Settleable Solids.

Other permits that have Settleable Solids that discharge to losing streams have a limit of 0.5 mL/L/hr for a monthly average (the land disturbance permit). This is deem protective of the losing area. The daily maximum is calculated by (0.5 AML)(LTAc/1.5524 AML)(3.114/LTAc) = 1.0 mg/L daily maximum. This method is outlined in SWRO-WP17-01

pН.

□ – pH is limited to the range of 6.5 – 9.0 pH units, as per [10 CSR 20-7.031(4)(E)]. pH is measured in pH units and is not to be averaged.

<u>Iron, Total Recoverable</u> Monitoring requirement only. Monitoring for ammonia is included to determine whether a "reasonable potential" exists to exceed water quality standards after the discharge begins. This parameter was listed as believed to present on the application and therefore was added to the permit.

<u>Aluminum, Total Recoverable</u> Monitoring requirement only. Monitoring for ammonia is included to determine whether a "reasonable potential" exists to exceed water quality standards after the discharge begins. This parameter was listed as believed to present on the application and therefore was added to the permit.

<u>Manganese</u>, <u>Total Recoverable</u> Monitoring requirement only. Monitoring for ammonia is included to determine whether a "reasonable potential" exists to exceed water quality standards after the discharge begins. This parameter was listed as believed to present on the application and therefore was added to the permit.

Benzene Monitoring requirement only. Monitoring for ammonia is included to determine whether a "reasonable potential" exists to exceed water quality standards after the discharge begins. This is a component of gasoline that can be present at salvage yard places for automobiles.

<u>Toluene</u> Monitoring requirement only. Monitoring for ammonia is included to determine whether a "reasonable potential" exists to exceed water quality standards after the discharge begins. This is a component of gasoline that can be present at salvage yard places for automobiles.

Ethylebenzene Monitoring requirement only. Monitoring for ammonia is included to determine whether a "reasonable potential" exists to exceed water quality standards after the discharge begins. This is a component of gasoline that can be present at salvage yard places for automobiles.

<u>Xylenes, Total</u> Monitoring requirement only. Monitoring for ammonia is included to determine whether a "reasonable potential" exists to exceed water quality standards after the discharge begins. This is a component of gasoline that can be present at salvage yard places for automobiles.

<u>Oil & Grease</u>. Conventional pollutant, effluent limitation for protection of aquatic life; 10 mg/L monthly average, 15 mg/L daily maximum.

Minimum Sampling and Reporting Frequency Requirements.

PARAMETER	SAMPLING FREQUENCY	REPORTING FREQUENCY
FLOW	QUARTERLY	QUARTERLY
BOD_5	QUARTERLY	QUARTERLY
TSS	QUARTERLY	QUARTERLY
РΗ	QUARTERLY	QUARTERLY
ALUMINUM, TOTAL RECOVERABLE	QUARTERLY	QUARTERLY
IRON, TOTAL RECOVERABLE	QUARTERLY	QUARTERLY
MANGANESE, TOTAL RECOVERABLE	QUARTERLY	QUARTERLY
BENZENE	QUARTERLY	QUARTERLY
TOLUENE	QUARTERLY	QUARTERLY
Ethylebenzene	QUARTERLY	QUARTERLY
TOTAL XYLENES	QUARTERLY	QUARTERLY
OIL & GREASE	QUARTERLY	QUARTERLY

Administrative Requirements

On the basis of preliminary staff review and the application of applicable standards and regulations, the Department, as administrative agent for the Missouri Clean Water Commission, proposes to issue a permit(s) subject to certain effluent limitations, schedules, and special conditions contained herein and within the operating permit. The proposed determinations are tentative pending public comment.

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